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SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT,
HAWAIIAN ISLANDS, 29 NOVEMBER 1975

TELEDYNE GEOTECH

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SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
Hawaiian Islands, 29 November 1975

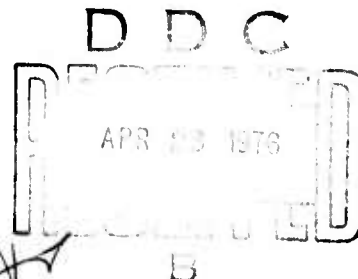
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February 1976

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)		

SDCS EVENT REPORT NO. 74

Hawaiian Islands, 29 November 1975

Using SDCS stations and LASA, the epicenter location and magnitudes become

Origin Time	Lat.	Long.	m_b	M_s
13:35:30.8	18.7N	156.2W	5.8	5.2

All SDCS stations were operational during this period.

Short-period signals associated with this event were recorded at all SDCS stations and LASA. NORSAR did not report a "P" arrival for this event. Horizontal SP channels at all SDCS stations were rotated.

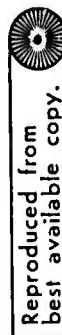
Long-period signals were recorded at all SDCS stations. Horizontal LP channels at all SDCS stations were rotated. Polarity of the LP radial channel at RK-ON is uncertain. ALPA and NORSAR long-period data were not recoverable. LASA long-period data were not included because of complicated recovery procedures.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response) with the exception of the LASA short-period plot. LASA SP scaling factors are millimicrons per inch.

STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES		ELEVATION METERS	INSTRUMENTATION	
		DEG	MN SECS		SHORT-PERIOD	LONG-PERIOD
ALPA	Alaska	65 14	00.0 N	626	None	31300
		147 44	36.0 W			
CPSO	McMinnville, Tennessee	35 35	41.4 N	574	6480 V	SL210 V
		085 34	13.5 W		7515 H	SL220 H
FN-WV	Franklin, West Virginia	38 32	58.0 N	910	KS36000	KS36000
		079 30	47.0 W			
LASA	Billings, Montana	46 41	19.0 N	744	HS10	7505A V
		106 13	20.0 W			8700C H
HN-ME	Houlton, Maine	46 09	43.0 N	213	18300	SL210 V
		067 59	09.0 W			SL220 H
NORSAR	Kjeller, Norway	60 49	25.4 N	379	HS10	7505A V
		010 49	56.5 E			8700C H
RA-ON	Red Lake, Ontario	50 50	20.0 N	366	18300	SL210 V
		095 40	20.0 W			SL220 H
WH2YK	White Horse, Yukon	60 41	41.0 N	855	18300	SL210 V
		154 58	02.0 W			SL220 H

Note: The orientation of the radial instruments at FN-WV is assumed to be $316^{\circ} \pm 5^{\circ}$ based on empirical data (event recordings). Rotation, where performed, is referenced to this azimuth and may be questionable.



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HYPOCENTER DETERMINATION

INPUT FOR EVENT 29 NOV 75
 13:36:04.0 19.999N 155.000W 0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CAIC	REST		
WH2YK	13 43 43.8	-0.0	-0.1	44.6	14.7
IAC	13 44 22.5	0.7	0.7	49.4	44.0
BK-CN	13 45 26.6	-0.9	-0.9	58.4	41.3
CFSC	13 46 04.0	-0.5	-0.6	63.9	58.9
FN-WV	13 46 34.1	0.3	0.3	68.4	55.2
HN-ME	13 47 17.3	0.4	0.5	75.6	45.6

67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LCNG.	DEPTH (KM)	SDV	IT	STA
NO CONVERGENCE	CN	CAIC	RUN			
13:35:13.6	18.445N	156.423W	-98. CAIC	0.6	16	6
13:35:30.8	18.718N	156.249W	0. REST	0.6	3	6

CALC					REST				
0	0	1	5	0	0	1	5	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0

CHI2 COVERAGE ELLIPSE; 95 PER CENT CONF..LEVEL, SDV= 1.02
 MAJOR 201.5KM. MINOR 62.1KM. AZ= 52 AREA= 39325 SQ.KM. REST

DATA SUMMARY

INPUT FOR EVENT 29 NOV 75
13:36:04.0 19.999N 155.000W 0KM.

STA.	PHASE	ARRIVAL		INST	FEE	A/T	MAGNITUDE		DIR	DIST
		TIME					MB	MS		
WH2YK	EP	13 43	43.8	SPZ	1.3	96.	5.30			44.6
WH2YK	IC	13 54	56.0	LPT	19.0	657.				
WH2YK	LR	13 57	15.0	LPZ	22.0	367.		5.33		44.6
IAC M	EP	13 44	22.5	SAE	1.8	1762.	6.70			49.4
RR-CN	EP	13 45	26.6	SPZ	1.2	182.	5.76			58.4
RR-CN	IC	14 02	56.0	LPT	19.0	231.				
RR-CN	LR	14 05	23.0	LPZ	23.0	169.		5.11		58.4
CFSC	EP	13 46	04.0	SPZ	1.2	403.	6.29			63.9
CFSC	IC	14 05	53.0	LPT	18.0	449.				
CFSC	LR	14 10	11.0	LPZ	19.0	112.		4.97		63.9
FN-WV	EP	13 46	34.1	SPZ	1.1	128.	5.81			68.4
FN-WV	IC	14 09	04.0	LPT	14.0	862.				
FN-WV	LR	14 10	00.0	LPR	17.0	221.		5.30		68.4
HN-ME	EP	13 47	17.3	SPZ	1.4	296.	6.03			75.6
HN-ME	IC	14 12	03.0	LPT	18.0	557.				
HN-ME	LR	14 17	06.0	LPZ	20.0	223.		5.35		75.6

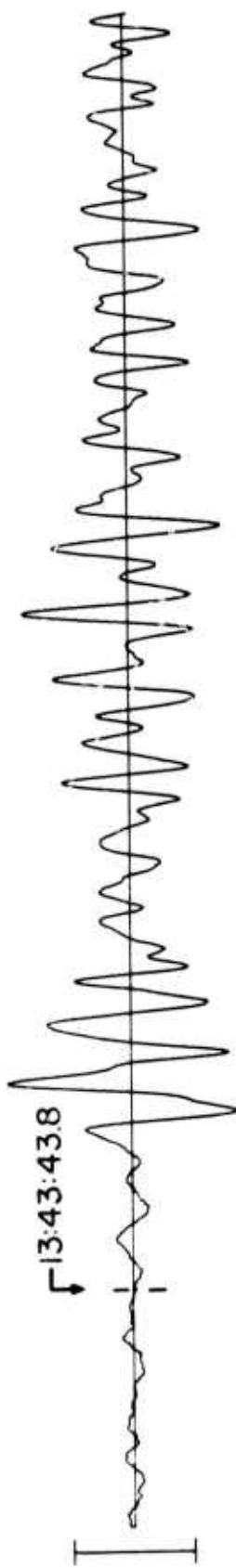
CRIGIN	LAT.	LCNG.	DEPTH (KM)	MAG	SDV	STA	LPMAG	LPSTV	LPSTA
13:35:30.8	18.718N	156.249W	0. REST	5.84	0.37	5	5.21	0.2	5

IAC NOT USED IN REST RUN SP AVG. MAG.

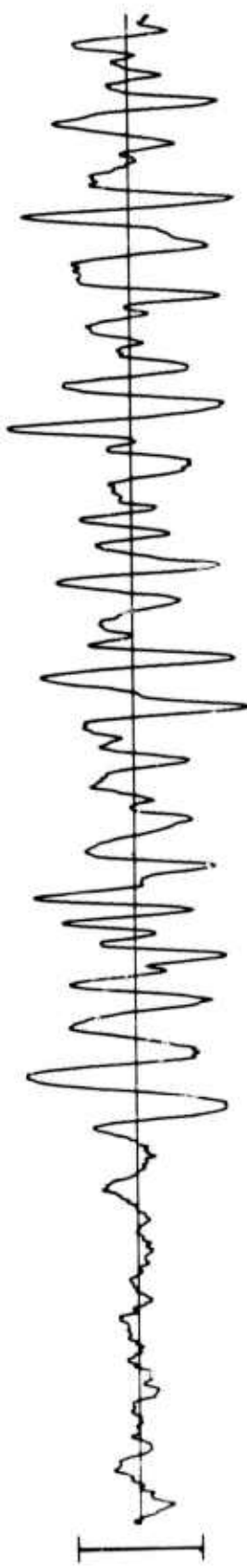
LAC NOT USED IN RESTRAINED SP AVERAGE MAGNITUDE CALCULATION
BECAUSE ITS MAGNITUDE EXCEEDS THE SDV PARAMETERS OF THE
HYPOCENTER PROGRAM.

WH2YK 29 NOV 75

SPZ
39.01 MU



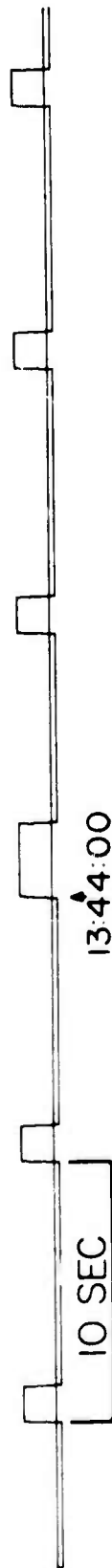
SPR
22.20 MU



SPT
18.54 MU

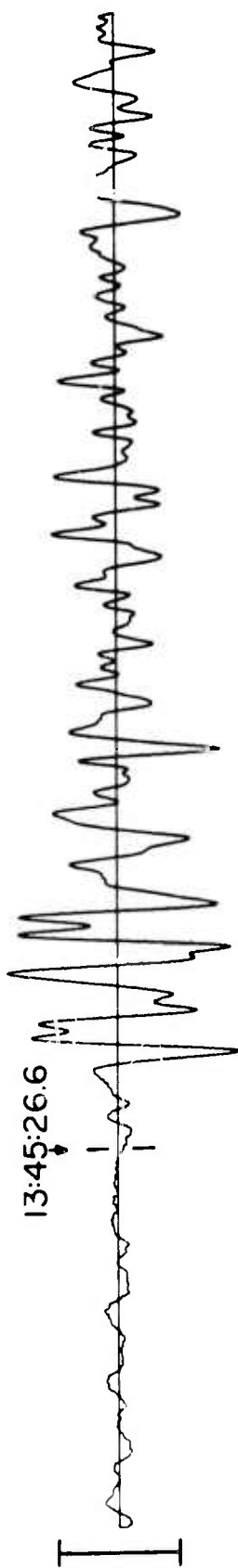


TIME

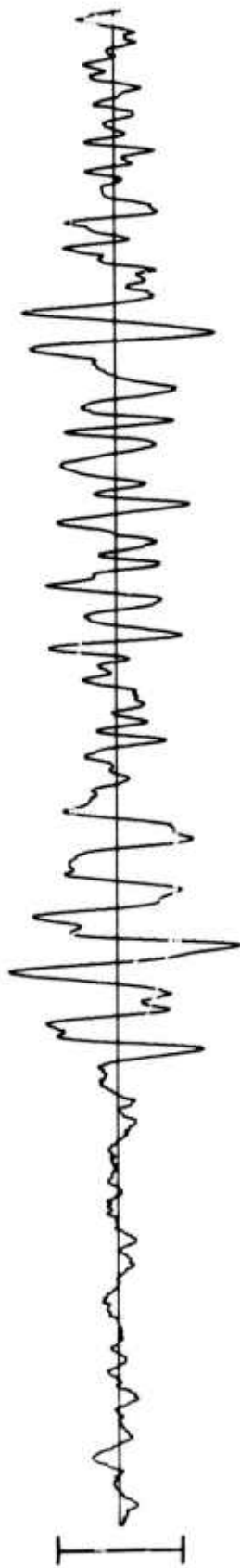


RK-ON 29 NOV 75

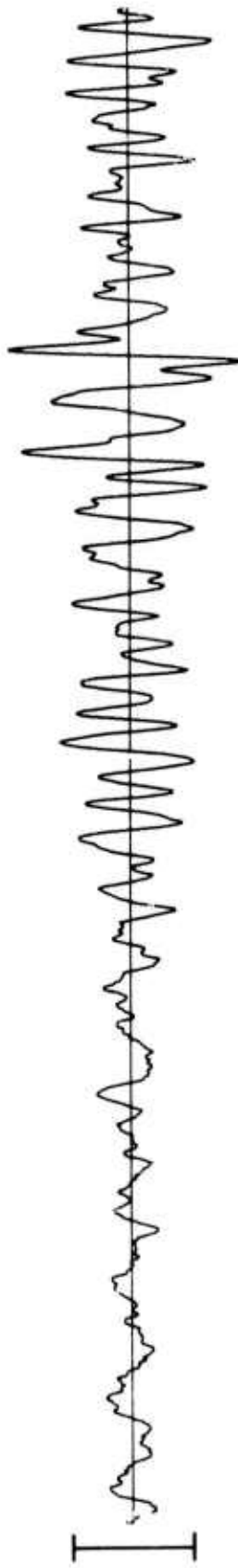
SPZ
76.07 MU



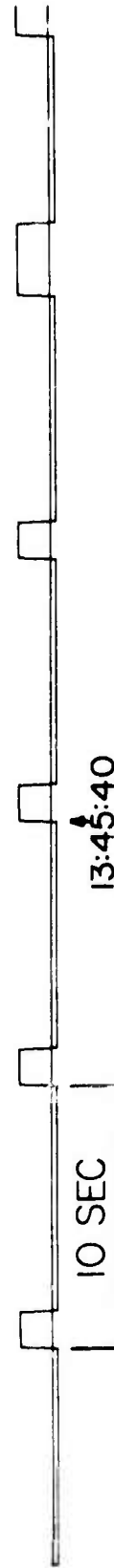
SPR
44.76 MU



SPT
32.92 MU



TIME



13:45:40

6<

CPSO 29 NOV 75

13:46:04.0

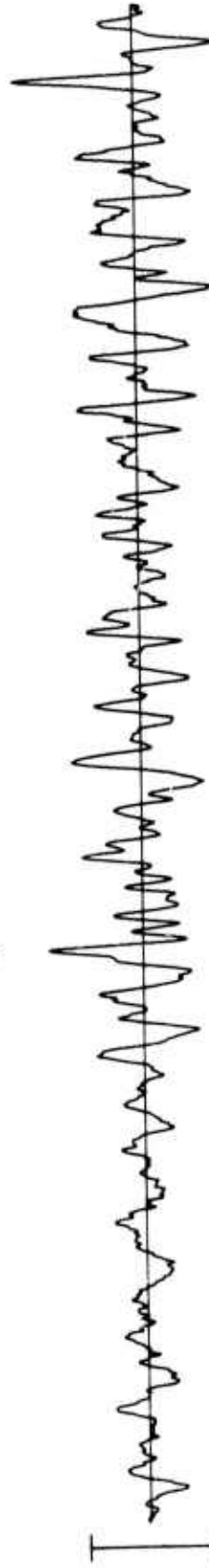
SPZ
197.49 MU



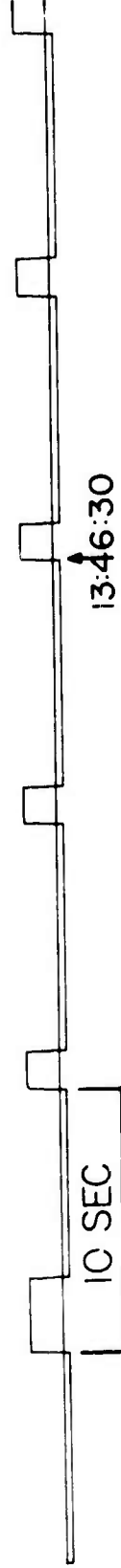
SPR
26.53 MU



SPT
29.18 MU



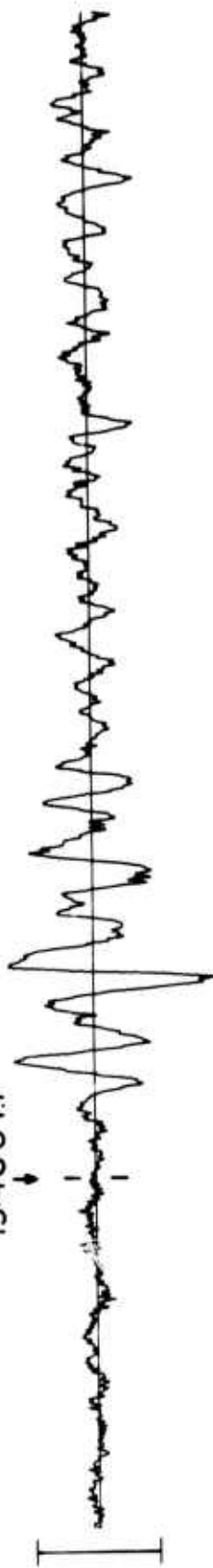
TIME



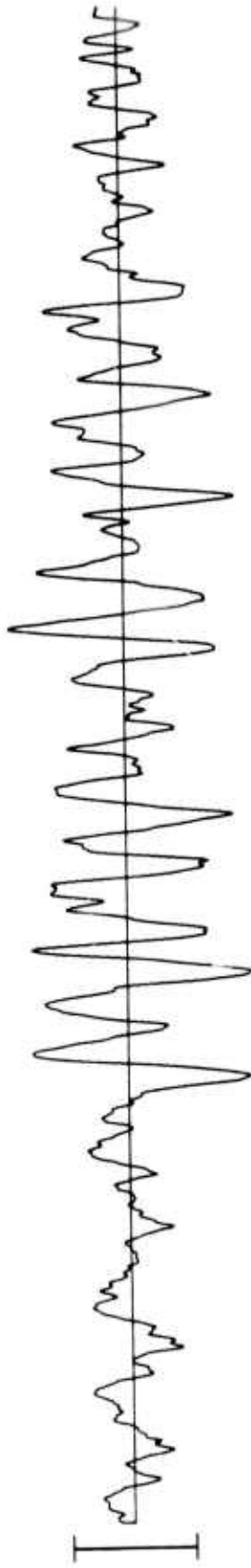
FN-WV 29 NOV 75

SFZ
72.47 MU

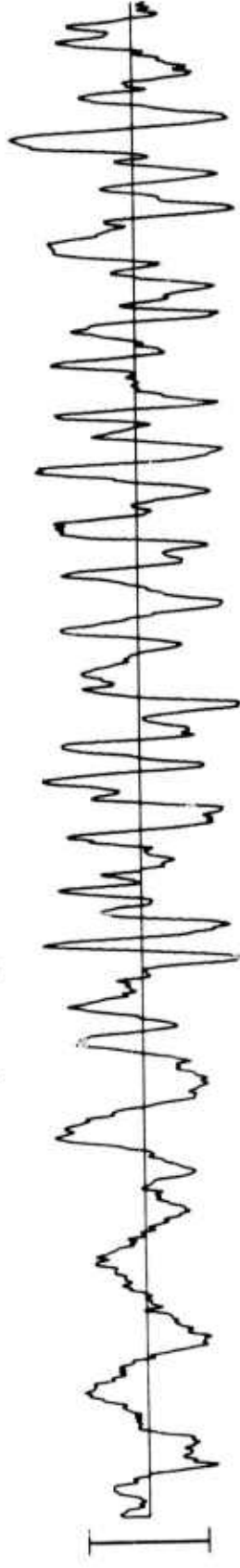
13:46:34.1



SPR
24.10 MU



SPT
15.22 MU

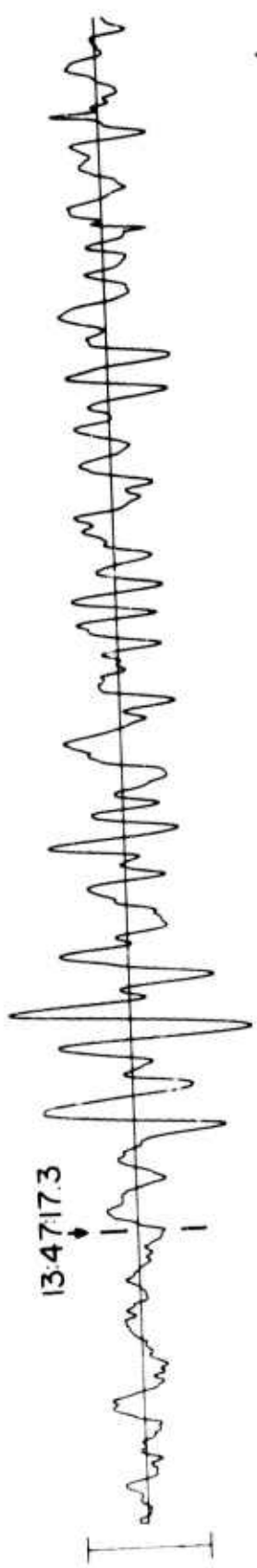


TIME

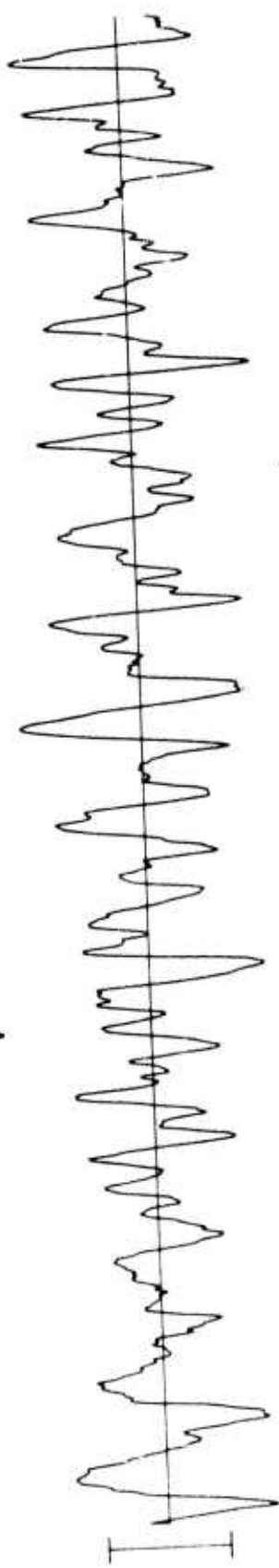


HN-ME 29 NOV 75

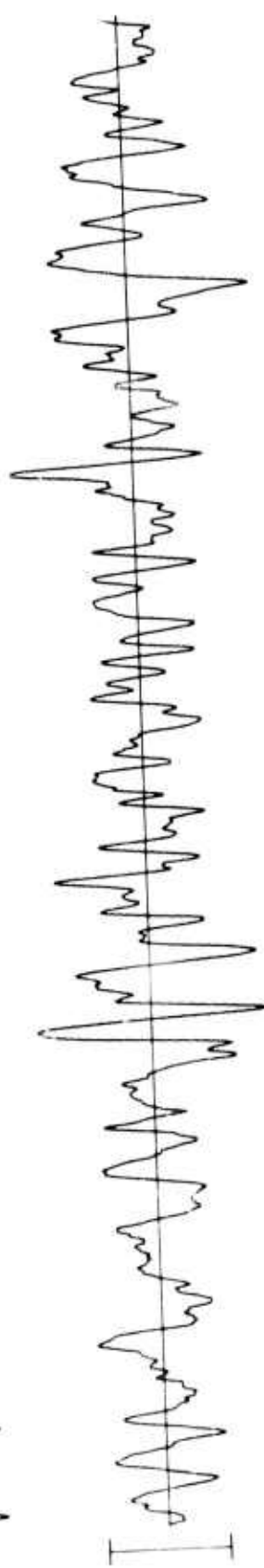
SPZ
79.85 MU



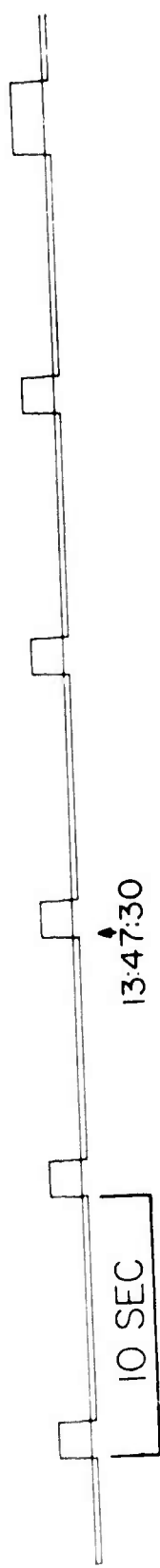
SPR
31.94 MU



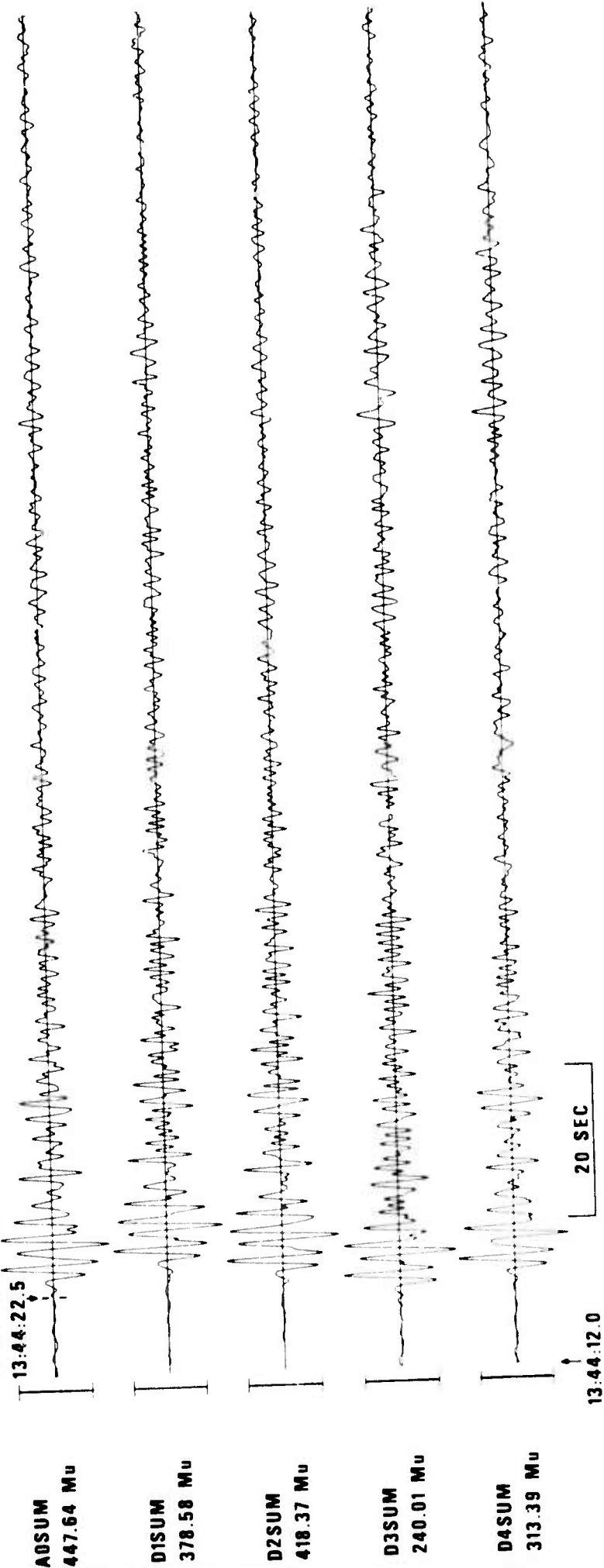
SPT
33.82 MU



TIME

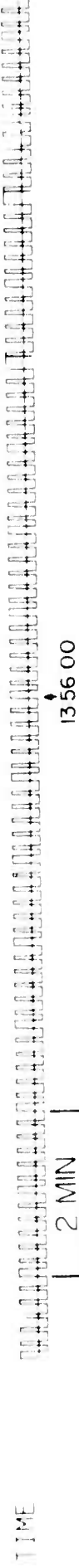
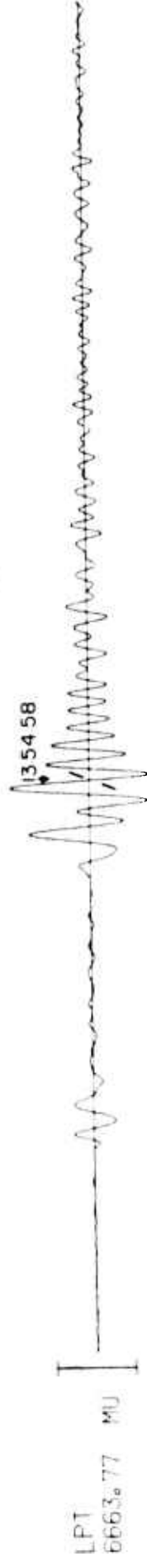
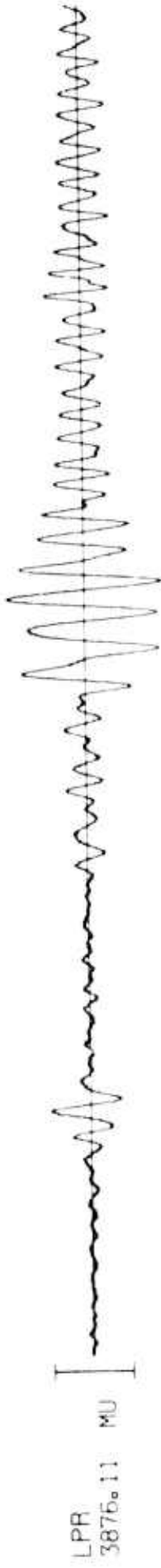


LASA INFINITE VELOCITY SUBARRAY SUMS 29 NOV 75



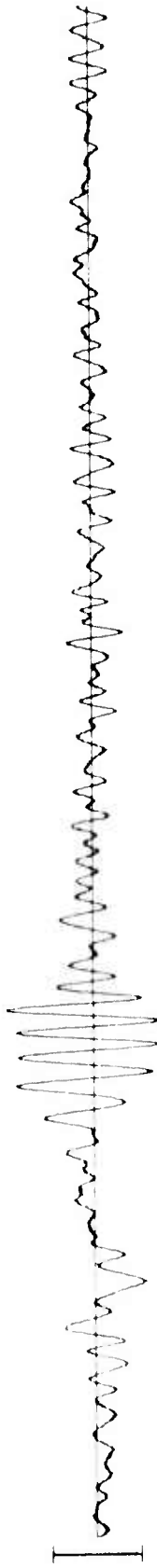
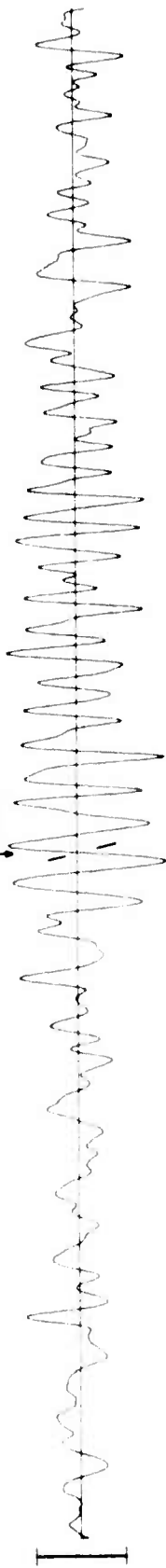
WHL:YR 20 NOV 75

135715

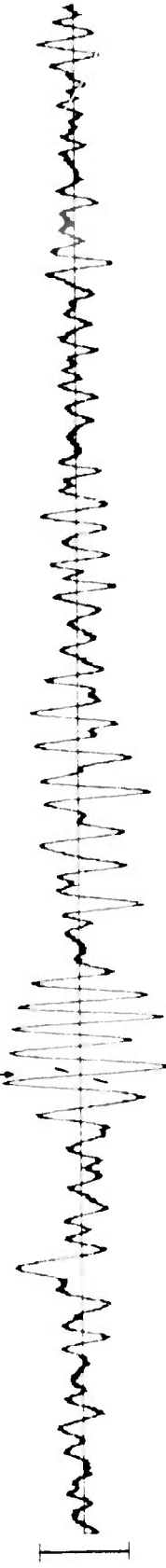


PK-CN 29 NOV 75

14 05 23



14 02 56

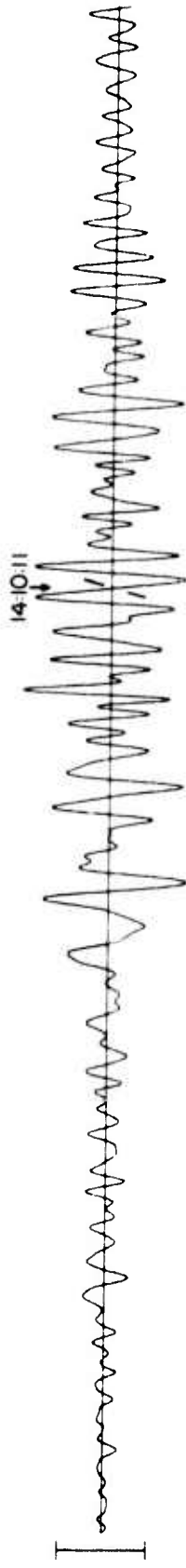


14 05 00

2 MIN

CPSU 29 NOV 75

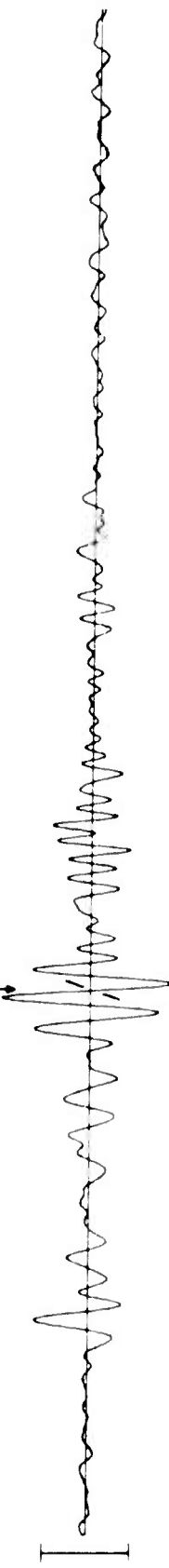
LPZ
1213.29 MU



LPR
1472.49 MU



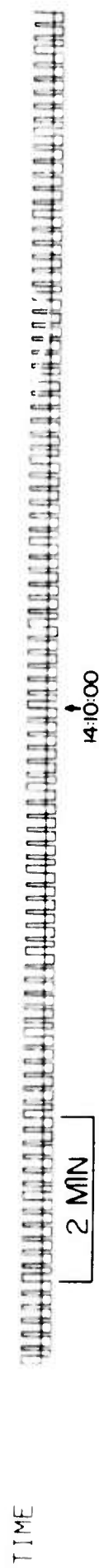
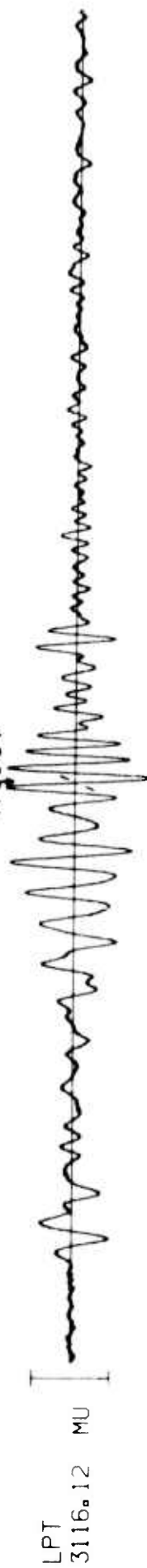
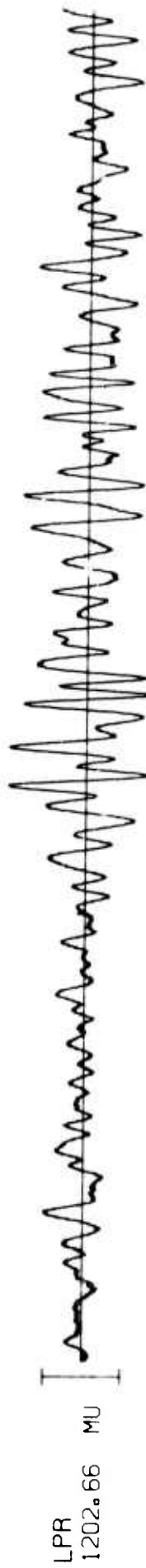
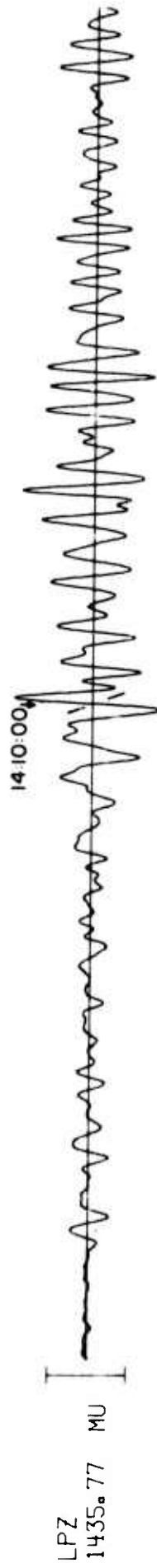
LPT
3703.15 MU



TIME



FN-WV 29 NOV 75



HN-ME 29 NOV 75

LPZ
2280.14

MU

141706

LPB
2770.69

MU

141203

LPT
4583.34

MU

TIME

2 MIN

141700